

AMENDMENTS TO THE CLAIMS:

This listing of claims replaces all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

Sub B

1. (Currently Amended) A modem comprising:
a base unit for transmitting a data signal having substantially no nonlinear distortion, the base unit being in communication with a telephone line and receiving an original signal from the telephone line, the base unit generating the data signal via analog frequency modulation without performing analog-to-digital conversion on the original signal from the telephone line; and

a communication card which receives the data signal from the base unit over a wireless medium, and which performs echo canceling on the data signal.

Sub B

2. (Cancelled)

Sub B

3. (Currently Amended) The modem of claim 1 or 2, wherein the base unit comprises:

a transmitter for transmitting the data signal; and
circuitry which receives the original signal from the telephone line and which generates the data signal from the original signal by maintaining a peak voltage excursion

Cont.

b) Canceled
of combined original and echo signals within a linear amplification region of the transmitter.

4. (Original) The ~~B~~ modem of claim 3, wherein the circuitry comprises an automatic gain control circuit.

5 to 8. (Cancelled)

A Sub B
9. (Original) The modem of claim 1, wherein the communication card includes a switch for selecting a type of medium over which to transmit and receive the data signal.

10. (Currently Amended) A modem comprising:
a base unit in communication with a telephone line for receiving original signals
from the telephone line, the base unit generating data signals via analog frequency
modulation without performing analog-to-digital conversion on the original signals from
the telephone line; and

a communication card for transmitting data signals to, and receiving data signals
from, the base unit, the communication card including a switch for selecting a type of
medium over which to transmit and receive the data signals.

AT Sub B17

11. (Original) The modem of claim 10, wherein the type of medium comprises a wired medium.

12. (Original) The modem of claim 10, wherein the type of medium comprises a wireless medium.

13. (Original) The modem of claim 10, further comprising circuitry which triggers the switch in response to detecting a wired medium interface to the modem.

14. (Original) The modem of claim 13, wherein the circuitry comprises a line presence indicator; and

wherein the switch is triggered to operate the modem in wired mode when the line presence indicator detects the wired medium and the switch is triggered to operate the modem in wireless mode when the line presence indicator does not detect the wired medium.

15 to 18. (Cancelled)

19. (Currently Amended) A modem comprising:
a base unit which interfaces to a telephone line, the base unit including a hook switch circuit that seizes the telephone line by drawing direct current from a central office battery to provide an indication that the telephone line is ready to transmit data signals, the

base unit being in communication with a telephone line and receiving original signals from the telephone line, the base unit generating data signals via analog frequency modulation without performing analog-to-digital conversion on the original signals from the telephone line; and

a communication card for transmitting data signals to, and receiving data signals from, the telephone line via the base unit.

A | 20. (Original) The modem of claim 19, wherein the communication card comprises a switch for selecting a type of medium over which to exchange the data signals with the base unit.

21. (Original) The modem of claim 20, wherein the type of medium comprises a wired medium.

22. (Original) The modem of claim 20, wherein the type of medium comprises a wireless medium.